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10/666,724

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Kenichi Kawasaki

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EXAMINER

LANIER, BENJAMIN E

ART UNIT

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2432

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/666,724	Applicant(s) KAWASAKI ET AL.	
	Examiner BENJAMIN E. LANIER	Art Unit 2432	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 April 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-12,14-19,22-24,26,29-37 and 39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-12,14-19,22-24,26,29-37 and 39 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/4/2009;4/7/2009</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed 03 April 2009 amends claims 1, 7, 9, 16, 17, 24, and 31.
Applicant's amendment has been fully considered and entered.

Response to Arguments

2. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 17-19, 22-24, 26, 29, 30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. With respect to claims 17-19, 22, and 23, the specification does not support the amendment to the claims that specifies capability signals are multiplexed with the multimedia data on the link to adjust a directivity of an antenna beam.
5. The specification discloses that the capability signal that adjusts the directivity of the antenna beam is transmitted from the player 20 to the source 12 (Page 8, lines 4-8). These capability signals cannot be multiplexed with the multimedia data because the multimedia data is

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transmitted from the source 12 to the player 20 (page 6, last line through page 7, first full paragraph).

6. With respect to claims 24, 26, 29, and 30, the specification does not support the amendment to the claims that specifies the capability signals do not include encryption keys or video display function signals including trick play mode signals. There is nothing in the specification to specifically exclude encryption keys or trick play mode signals from the claimed capability signals.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

9. Claims 1, 2, 6, 24, 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olson, U.S. Publication No. 2003/0117587, in view of Chang, U.S. Publication No. 2002/0183003, in view of Nesic, U.S. Patent No. 6,593,895, and further in view of Koyama, U.S. Publication No. 2002/0159035. Referring to claims 1, 2, 6, Olson discloses a projector (Figure 2,

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14) that wirelessly (Figure 2, 32 & [0023]) receives uncompressed data ([0041]) from a portable computer (Figure 4, 56 & 58) for display on a screen (Figure 4, 65), which meets the limitation of a source of multimedia data, means for storing multimedia data, and a displayer of multimedia data mounted in a room in which the source is disposed, the source wirelessly transmitting the multimedia data in an uncompressed form to the displayer on a primary link, the displayer is a projector, the source and displayer not being disposed together in a common package. Olson does not specify using a frequency band of 60 GHz. Chang discloses using rf/microwave signals in the frequency range of 5-105 GHz with bandwidths of 5-20 GHz that provide a minimum data rate of 5-40 Gbps ([0024] & [0043]), which meets the limitation of a primary link at approximately sixty GigaHertz (60GHz), wherein the primary link has a data rate of at least two Giga bits per second (2.0 Gbps) and the primary link has a bandwidth of approximately 2.5 GHz. It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit the uncompressed data of Olson using rf/microwave signals of Chang in order to take advantage of the high data rate communications possible using a high frequency band (Nesic: Col. 1, lines 11-32), which would have allowed for faster transmission of the uncompressed data of Olson. Olson does not disclose that the projector transmits display capability information to the portable computer. Koyama discloses a projector that transmits display settings information to a computer ([0016] & Figure 4), which meets the limitation of the displayer sends to the source signals indicating at least one display capability of the displayer, the displayer and source further communicate displayer control signals/capability signals. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the projector of Olson to transmit display settings information to the portable computer in order to the system user of the

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current display settings for the projector such that the user is able to modify the current settings if desired as taught by Koyama ([0058]).

Referring to claims 24, Olson discloses a projector (Figure 2, 14) that wirelessly (Figure 2, 32 & [0023]) receives uncompressed data ([0041]) from a portable computer (Figure 4, 56 & 58) for display on a screen (Figure 4, 65), which meets the limitation of means for storing multimedia data, means for wirelessly receiving, from a transmitter, the multimedia data in uncompressed form on a primary link. Olson does not specify using a frequency band of 60 GHz. Chang discloses using rf/microwave signals in the frequency range of 5-105 GHz with bandwidths of 5-20 GHz that provide a minimum data rate of 5-40 Gbps ([0024] & [0043]), which meets the limitation of a primary link at approximately sixty GigaHertz (60GHz), wherein the primary link has a data rate of at least two and two tenths Giga bits per second (2.0 Gbps), such that unless the transmitter is in the same room as the multimedia player the multimedia player substantially cannot receive the multimedia data. It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit the uncompressed data of Olson using rf/microwave signals of Chang in order to take advantage of the high data rate communications possible using a high frequency band (Nesic: Col. 1, lines 11-32), which would have allowed for faster transmission of the uncompressed data of Olson. Olson does not disclose that the projector transmits display capability information to the portable computer. Koyama discloses a projector that transmits display settings information to a computer ([0016] & Figure 4), which meets the limitation of the multimedia player and transmitter further communicate capability signals on a secondary link having a data rate lower than the data rate of the primary link, the capability signals not including encryption keys or video display function signals

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including trick play mode signals. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the projector of Olson to transmit display settings information to the portable computer in order to the system user of the current display settings for the projector such that the user is able to modify the current settings if desired as taught by Koyama ([0058]).

Referring to claim 30, Olson does not specify that the data transmitted is high definition multimedia data. Nesic discloses utilizing microwave and millimeter-wave communication systems at the frequency band of 59-64 GHz for short range high data rate communication for HD video transmissions and TV distribution systems (Col. 1, lines 11-32), which meets the limitation of the data is high definition multimedia data. It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit high definition uncompressed data in Olson using 60GHz frequency band in order to take advantage of the high data rate communications possible using the 60 GHz frequency band (Nesic: Col. 1, lines 11-32).

10. Claims 4, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olson, U.S. Publication No. 2003/0117587, in view of Chang, U.S. Publication No. 2002/0183003, in view of Nesic, U.S. Patent No. 6,593,895, in view of Koyama, U.S. Publication No. 2002/0159035, and further in view of Rao, U.S. Patent No. 5,881,074. Referring to claims 4, 26, Chang does not specify whether the link is full or half duplex. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the link in full-duplex in order to take advantage of the full bandwidth as taught in Rao (Col. 2, lines 9-12), which would benefit the uncompressed data transmissions of Olson.

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11. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Olson, U.S.

Publication No. 2003/0117587, in view of Chang, U.S. Publication No. 2002/0183003, in view of Nesic, U.S. Patent No. 6,593,895, in view of Koyama, U.S. Publication No. 2002/0159035, and in further view of Edenson, U.S. Patent No. 7,006,995. Referring to claim 5, Olson does not disclose the uncompressed data being encrypted prior to being received by the projector.

Edenson discloses a projector receiving encrypted data and a decryption key together (Col. 3, line 61 - Col. 4, line 2 & Col. 8, lines 28-31), which meets the limitation of encryption keys are multiplexed with the multimedia data on the primary link. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the uncompressed data of Olson to be encrypted prior to being transmitted to the projector in order to render the data virtually useless if intercepted by an unauthorized party as taught by Edenson (Col. 3, line 66 – Col. 4, line 2).

12. Claims 7-12, 16, 31-34, 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olson, U.S. Publication No. 2003/0117587, in view of Chang, U.S. Publication No.

2002/0183003, in view of Nesic, U.S. Patent No. 6,593,895, and further in view of Saints, U.S.

Patent No. 6,374,085. Referring to claim 7, Olson discloses a projector (Figure 2, 14) that

wirelessly (Figure 2, 32 & [0023]) receives uncompressed data ([0041]) from a portable

computer (Figure 4, 56 & 58) for display on a screen (Figure 4, 65), which meets the limitation

of a source of multimedia data, means for storing multimedia data, and a displayer of multimedia

data mounted in a room in which the source is disposed, the source wirelessly transmitting the

multimedia data in an uncompressed form to the displayer on a primary link, the displayer is a

projector, the source and displayer not being disposed together in a common package. Olson

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does not specify using a frequency band of 60 GHz. Chang discloses using rf/microwave signals in the frequency range of 5-105 GHz with bandwidths of 5-20 GHz that provide a minimum data rate of 5-40 Gbps ([0024] & [0043]), which meets the limitation of a primary link at approximately sixty GigaHertz (60GHz), wherein the primary link has a data rate of at least two Giga bits per second (2.0 Gbps) and the primary link has a bandwidth of approximately 2.5 GHz. It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit the uncompressed data of Olson using rf/microwave signals of Chang in order to take advantage of the high data rate communications possible using a high frequency band (Nesic: Col. 1, lines 11-32), which would have allowed for faster transmission of the uncompressed data of Olson. Olson does not disclose that the computer and projector communicate power control information. Saints discloses transmitting power control information on the reverse link (Col. 2, lines 41-49), which meets the limitation of control signals are sent between the source and displayer, at least some control signals indicating a reception condition at the receiver useful for establishing a source transmission power level. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the projector and computer of Olson to transmit power control information in order to avoid interference conditions and the reception of erroneous frames as taught by Saints (Col. 1, line 65 – Col. 2, line 8).

Referring to claim 8, Olson does not specify that the data transmitted is high definition multimedia data. Nesic discloses utilizing microwave and millimeter-wave communication systems at the frequency band of 59-64 GHz for short range high data rate communication for HD video transmissions and TV distribution systems (Col. 1, lines 11-32), which meets the limitation of the data is high definition multimedia data. It would have been obvious to one of

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ordinary skill in the art at the time the invention was made to transmit high definition uncompressed data in Olson using 60GHz frequency band in order to take advantage of the high data rate communications possible using the 60 GHz frequency band (Nesic: Col. 1, lines 11-32).

Referring to claims 9, 11, 12, 16, Olson discloses a projector (Figure 2, 14) that wirelessly (Figure 2, 32 & [0023]) receives uncompressed data ([0041]) from a portable computer (Figure 4, 56 & 58) for display on a screen (Figure 4, 65), which meets the limitation disposing a multimedia transmitter and a multimedia receiver in a room on different surfaces from each other, establishing a wireless link between the transmitter and receiver, wirelessly transmitting a multimedia signal on a link from the transmitter to the receiver. Olson does not specify using a frequency sufficiently high that the signal substantially cannot be received outside the room. Chang discloses using rf/microwave signals in the frequency range of 5-105 GHz with bandwidths of 5-20 GHz that provide a minimum data rate of 5-40 Gbps ([0024] & [0043]), which meets the limitation of a frequency sufficiently high that the signal substantially cannot be received outside the room, the frequency is approximately sixty GigaHertz (60 GHz), the link has a data rate of at least two Giga bits per second (2.0 Gbps). It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit the uncompressed data of Olson using rf/microwave signals of Chang in order to take advantage of the high data rate communications possible using a high frequency band (Nesic: Col. 1, lines 11-32), which would have allowed for faster transmission of the uncompressed data of Olson. Olson does not disclose that the computer and projector communicate power control information. Saints discloses transmitting power control information on the reverse link (Col. 2, lines 41-49), which meets the limitation of signals being exchanged between the transmitter and receiver to

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define a power level used by the transmitter, control signals are sent between the transmitter and receiver, at least some control signals being useful for establishing a transmitter antenna beam control. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the projector and computer of Olson to transmit power control information in order to avoid interference conditions and the reception of erroneous frames as taught by Saints (Col. 1, line 65 – Col. 2, line 8).

Referring to claim 10, Olson does not specify that the data transmitted is high definition multimedia data. Nesic discloses utilizing microwave and millimeter-wave communication systems at the frequency band of 59-64 GHz for short range high data rate communication for HD video transmissions and TV distribution systems (Col. 1, lines 11-32), which meets the limitation of the data is high definition multimedia data. It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit high definition uncompressed data in Olson using 60GHz frequency band in order to take advantage of the high data rate communications possible using the 60 GHz frequency band (Nesic: Col. 1, lines 11-32).

Referring to claims 31, 34, Olson discloses a projector (Figure 2, 14) that wirelessly (Figure 2, 32 & [0023]) receives uncompressed data ([0041]) from a portable computer (Figure 4, 56 & 58) for display on a screen (Figure 4, 65), which meets the limitation of a source of multimedia data, a display for the multimedia data, the source wirelessly transmitting the multimedia data in an uncompressed form to the display on a primary link. Olson does not specify using a frequency band of 60 GHz. Chang discloses using rf/microwave signals in the frequency range of 5-105 GHz with bandwidths of 5-20 GHz that provide a minimum data rate of 5-40 Gbps ([0024] & [0043]), which meets the limitation of a primary link at approximately

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sixty GigaHertz (60GHz), wherein the primary link has a data rate of at least two and a half Giga bits per second (2.0 Gbps). It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit the uncompressed data of Olson using rf/microwave signals of Chang in order to take advantage of the high data rate communications possible using a high frequency band (Nesic: Col. 1, lines 11-32), which would have allowed for faster transmission of the uncompressed data of Olson. Olson does not disclose that the computer and projector communicate power control information. Saints discloses transmitting power control information on the reverse link (Col. 2, lines 41-49), which meets the limitation of control signals are sent between the source and display, at least some control signals being useful for establishing a source antenna beam form control. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the projector and computer of Olson to transmit power control information in order to avoid interference conditions and the reception of erroneous frames as taught by Saints (Col. 1, line 65 – Col. 2, line 8).

Referring to claims 32, 39, Olson does not specify that the data transmitted is high definition multimedia data. Nesic discloses utilizing microwave and millimeter-wave communication systems at the frequency band of 59-64 GHz for short range high data rate communication for HD video transmissions and TV distribution systems (Col. 1, lines 11-32), which meets the limitation of the source of multimedia data is a set-top box like device capable of decoding compressed multimedia content as received from at least one of satellite, cable, terrestrial broadcast, internet streaming, the data is high definition multimedia data. It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit high definition uncompressed data in Olson using 60GHz frequency band in order to

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take advantage of the high data rate communications possible using the 60 GHz frequency band (Nesic: Col. 1, lines 11-32).

Referring to claim 33, Olson discloses utilizing LCDs ([0017]), which meets the limitation of the display is a liquid crystal display (LCD).

13. Claims 14, 36, 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olson, U.S. Publication No. 2003/0117587, in view of Chang, U.S. Publication No. 2002/0183003, in view of Nesic, U.S. Patent No. 6,593,895, in view of Saints, U.S. Patent No. 6,374,085, and in further view of Edenson, U.S. Patent No. 7,006,995. Referring to claims 14, 36, 37, Olson does not disclose the uncompressed data being encrypted prior to being received by the projector. Edenson discloses a projector receiving encrypted data and a decryption key together (Col. 3, line 61 - Col. 4, line 2 & Col. 8, lines 28-31), which meets the limitation of encryption keys are multiplexed with the multimedia data on the primary link, the player and source further communicate encryption keys on a secondary link having a data rate lower than the data rate of the primary link. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the uncompressed data of Olson to be encrypted prior to being transmitted to the projector in order to render the data virtually useless if intercepted by an unauthorized party as taught by Edenson (Col. 3, line 66 – Col. 4, line 2).

14. Claims 15, 29, 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olson, U.S. Publication No. 2003/0117587, in view of Chang, U.S. Publication No. 2002/0183003, in view of Nesic, U.S. Patent No. 6,593,895, in view of Saints, U.S. Patent No. 6,374,085, and in further view of Koyama, U.S. Publication No. 2002/0159035. Referring to claims 15, 37, Olson does not disclose that the projector transmits display capability information to the portable

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computer. Koyama discloses a projector that transmits display settings information to a computer ([0016] & Figure 4), which meets the limitation of player control signals/capability signals are communicated between the transmitter and receiver on a secondary link having a data rate lower than the data rate of the primary link. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the projector of Olson to transmit display settings information to the portable computer in order to the system user of the current display settings for the projector such that the user is able to modify the current settings if desired as taught by Koyama ([0058]).

Referring to claim 29, Olson does not disclose that the computer and projector communicate power control information. Saints discloses transmitting power control information on the reverse link (Col. 2, lines 41-49), which meets the limitation of control signals are sent between the multimedia player and transmitter, at least some control signals being useful for establishing a transmission power level/an antenna beam control. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the projector and computer of Olson to transmit power control information in order to avoid interference conditions and the reception of erroneous frames as taught by Saints (Col. 1, line 65 – Col. 2, line 8).

15. Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Olson, U.S. Publication No. 2003/0117587, in view of Chang, U.S. Publication No. 2002/0183003, in view of Nesic, U.S. Patent No. 6,593,895, in view of Saints, U.S. Patent No. 6,374,085, and further in view of Rao, U.S. Patent No. 5,881,074. Referring to claim 35, Chang does not specify whether the link is full or half duplex. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the link in full-duplex in order to take

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advantage of the full bandwidth as taught in Rao (Col. 2, lines 9-12), which would benefit the uncompressed data transmissions of Olson.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN E. LANIER whose telephone number is (571)272-3805. The examiner can normally be reached on M-Th 7:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Benjamin E Lanier/
Primary Examiner, Art Unit 2432